

Mississippi River Research Consortium 35th Annual Meeting Program Radisson Hotel, La Crosse, Wisconsin

SCHEDULE OF EVENTS AND LOCATIONS

24 APRIL 2003 - THURSDAY

7:15 AM Registration (Ballroom Foyer)

8:00 AM Platform Presentations Sessions I and II (Ballroom A)

NOON Lunch (On your own)

1:00 PM Platform Presentations Sessions III and IV (Ballroom A)

5:00 PM Poster Presentations and Social (Ballroom Foyer)

6:00 PM Banquet (Ballroom B)

25 APRIL 2003 – FRIDAY

7:45 AM Registration (Ballroom Foyer)

8:00 AM Platform Presentation Sessions V and VI (Ballroom A)
11:40 AM Middle & High School Student Poster (Ballroom Foyer)

NOON Business Meeting (Ballroom A) 1:00 PM Lunch and Raffle (Ballroom B)

24 APRIL 2003 – THURSDAY

PLATFORM PRESENTATIONS BALLROOM A

8:00 AM Welcome and Announcements, Jeff Arnold, MRRC President

SESSION I – WATER QUALITY AND HYDROLOGY (Moderator: John Chick)

8:10 AM A SATELLITE-BASED ASSESSMENT OF THE 2001 FLOOD EVENT FOR

LA CROSSE, WI. Cynthia J. Berlin.

8:30 AM MATHEMATICAL MODELING FOR ARTIFICIAL ISLAND CONSTRUCTION

WITHIN THE LOWER PEORIA LAKE. Nani G. Bhowmik.

8:50 AM TWELVE YEARS OF WATER QUALITY TRENDS IN POOL 26 OF THE UPPER MISSISSIPPI RIVER. **Lori Soeken-Gittinger** and John H. Chick.

SESSION II – VEGETATION (Moderator: John Chick)

- 9:10 AM DETECTING AND PROTECTING WILD RICE (ZIZANIA AQUATICA L.) IN THE UPPER MISSISSIPPI SYSTEM (UMRS) --1975-2001. **J. Therese Dukerschein.**
- 9:30 AM AQUATIC PLANT GROWTH MODEL REFINEMENT FOR THE UPPER MISSISSIPPI RIVER-ILLINOIS WATERWAY SYSTEM NAVIGATION STUDY. **Elly P.H.Best**, Gregory A. Kiker, Beth A. Rycyzyn, Kevin Kenow, Jim Fischer, Shyam K. Nair, and Dan B. Wilcox.

9:50 – 10:10 AM BREAK

SESSION II – VEGETATION cont. (Moderator: Sean Jenkins)

- 10:10 AM SUBMERSED AQUATIC VEGETATION [WILDCELERY (VALLISNERIA AMERICANA) AND SAGO PONDWEED (POTAMAGETON PECTINATUS)] RE-ESTABLISHMENT EFFORTS IN LAKE CHAUTAUQUA, ILLINOIS RIVER. **Thad R. Cook** and Mark A. Pegg.
- 10:30 AM SPATIAL AND TEMPORAL DYNAMICS BETWEEN OVERS TORY STRUCTURE AND GROUND FLORA DIVERSITY OF TWO LIMESTONE GLADES IN PIKE COUNTY, ILLINOIS. **Michael J. C. Murphy** and Sean E. Jenkins.
- 10:50 AM PREDICTING SEED/SEEDLING DYNAMICS: THE NON-TAROT CARD APPROACH. **Robert Cosgriff**, Yao Yin, Theresa Blackburn, Thad Cook, Heidi Langrehr, and Megan Moore.
- 11:10 AM PHYSICAL AND CHEMICAL INFLUENCES ON THE DISTRIBUTION AND ABUNDANCE OF VALLISNERIA AMERICANA L. **Rebecca M. Kreiling**, Yao Yin, Daniel T. Gerber, and Abdulaziz Elfessi.
- 11:30 AM FOREST COMMUNITIES OF A HYDROLOGICALLY MODIFIED FLOODPLAIN ALONG THE LOWER KASKASKIA RIVER. **Susan P. Romano**, James J. Zaczek, Sara G. Baer, and Karl W. J. Williard.

11:50 AM LUNCH (On your own)

SESSION III – BIRDS (Moderator: Megan Moore)

1:00 PM	BALD EAGLE NEST SITE SELECTION AND PRODUCTIVITY RELATED TO HABITAT FEAUTURES. Jeremy E. Guinn and James W. Grier.	
1:20 PM	REPRODUCTIVE SUCCESS AND TERRITORY RE-OCCUPATION RATES FOR RED-SHOULDERED HAWK (BUTEO LINEATUS) WITHIN THE MILAN BOTTOMS. Jon W. Stravers , Kelly J. McKay, and Gary Swenson.	
1:40 PM	BREEDING BIRDS OF YOUNG FLOODPLAIN FORESTS GROWING ON ABANDONED AGRICULTURAL LAND. Melinda G. Knutson , and Laura E.	
2:00 PM	McColl. SPATIALLY-EXPLICIT HIERARCHICAL MODELS OF ANIMAL COUNTS. Wayne E. Thogmartin, Melinda G. Knutson, and John R. Sauer.	
2:20 PM	GENE FLOW IN THE ILLINOIS POPULATION OF WILD TURKEY, AN INVESTIGATION USING MTDNA. Jessica L. Petersen and Michael A. Romano.	
2:40 – 3:00 PM BREAK		
SESSION IV	– NATIVE BIVALVES (Moderator: Mark Pegg)	
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	– NATIVE BIVALVES (Moderator: Mark Pegg) SIMPLE STOCHASTIC MODELS TO EXPLAIN POPULATIONS OF THE	
3:00 PM	T – NATIVE BIVALVES (Moderator: Mark Pegg) SIMPLE STOCHASTIC MODELS TO EXPLAIN POPULATIONS OF THE FINGERNAIL CLAM, MUSCULIUM TRANSVERSUM. Jim Eckblad. HABITAT SUITABILITY ANALYSIS FOR MUSSELS IN THE MISSISSIPPI	

HYDRODYNAMIC CHARACTERIZATION OF FRESHWATER MUSSEL

HABITATS IN THE UPPER MISSISSIPPI RIVER. Nathan Young, Larry Weber,

4:20 PM

and Tatsuaki Nakato.

25 APRIL 2003 – FRIDAY

PLATFORM PRESENTATIONS BALLROOM A

SESSION V – FISH (Moderator: Brent Knights)

8:00 AM	SUSTAINED HIGH WATER ON THE MISSISSIPPI RIVER: INFUENCES ON FISH ASSEMBLAGES IN COLDWATER TRIBUTARIES. Neal D. Mundahl.
8:20 AM	CHANNEL CATFISH AS POTENTIAL SEED DISPERSAL AGENTS FOR RED MULBERRY AND SWAMP PRIVET IN THE MISSISSIPPI RIVER. John H. Chick, Robert J. Cosgriff, and Lori S. Gittinger.
8:40 AM	HIGHLIGHTS FROM 14 YEARS OF FISH MONITORING ON POOL 26 OF THE MISSISSIPPI RIVER. Eric N. Ratcliff , Eric J Gittinger, and John H. Chick.
9:00 AM	COMPARING COMMERCIAL HARVEST AND LONG-TERM MONITORING TRENDS OF FISHES IN POOL 26 OF THE MISSISSIPPI RIVER. Eric J. Gittinger, Eric N. Ratcliff, John H. Chick and Rob J. Maher.
9:20 AM	EVALUATION OF A BARRIER TO PREVENT TRANSFERS OF HARMFUL AQUATIC SPECIES BETWEEN THE MISSISSIPPI AND GREAT LAKES BASINS. Traci L. Barkley , Richard E. Sparks, John M. Dettmers.
9:40 AM	EMP BIORESPONSE MONITORING SUMMARY: LAKE CHAUTAUQUA 1991-2002. Kevin S. Irons , T. Matt O'Hara, Michael A. McClelland, and Mark A. Pegg.

10:00 – 10:20 AM BREAK, MIDDLE & HIGH SCHOOL STUDENT POSTERS

SESSION V – FISH cont. (Moderator: Heidi A. Langrehr)

10:20 AM FISH RESPONSE TO EMERGENT VEGETATION PRODUCTION IN BACKWATERS OF MISSISSIPPI RIVER POOL 25: AN EVALUATION OF ENVIRONMENTAL POOL MANAGEMENT. **S. Reid Adams**, James E. Garvey, Michael B. Flinn, Brooks M. Burr, Matt R. Whiles, and Robert J. Sheehan.

SESSION VI – AQUATIC INVERTEBRATES (Moderator: Heidi A. Langrehr)

10:40 AM AQUATIC MACROINVERTEBRATE RESPONSES TO ENVIRONMENTAL POOL MANAGEMENT AND EMERGENT VEGETATION IN BACKWATERS OF MISSISSIPPI RIVER POOL 25. **Michael B. Flinn**, Matt R. Whiles, S. Reid Adams.

11:00 AM INTERACTIONS BETWEEN THE HYDROID CORDYLOPHORA SP. AND THE ZEBRA MUSSEL DREISSENA POLYMORPHA IN TWO MIDWEST RIVERS. **Emily Thorn, Laura Page**, Nadine C. Folino-Rorem, Jim Stoeckel, Chris Flinn

11:20 AM SPATIAL AND TEMPORAL DIFFERENCES IN TRANSPORT OF MACRO AND MICROZOOPLANKTON IN THE SCHOOLCRAFT LAKE-RIVER SYSTEM. **Debbie L. Guelda** and Erich Westrich.

11:40 AM MIDDLE & HIGH SCHOOL STUDENT POSTERS

POSTER PRESENTATIONS HOTEL FOYER

24 APRIL 2003 - THURSDAY, 5:00 PM

- 1. QUANTITATIVE SELECTION OF A SPECIES LIST FOR REVEGETATION OF REED CANARYGRASS COMMUNITIES. **Jessica A. Bolwahn**, Craig A. Annen, and Robin W. Tyser.
- 2. RAREFACTION ANALYSIS TO DETERMINE SUB-SAMPLING EFFORT FOR ESTIMATING CHIRONOMID DIVERSITY IN MINNESOTA FARM PONDS. **Benjamin D. Campbell**, Roger J. Haro, Melinda G. Knutson, and William B. Richardson.
- 3. NITROGEN CYCLING DURING SEDIMENT DESICCATION AND REWETTING IN THE UPPER MISSISSIPPI RIVER, NAVIGATION POOL 8. **Jennifer C. Cavanaugh**, Eric A. Strauss, Lynn A. Bartsch, William B. Richardson, and Dave M. Soballe.
- 4. LONG TERM WATER TEMPERATURE MONITORING ON THE ST. CROIX NATIONAL SCENIC RIVERWAY. **Randy Ferrin** and Byron Karns.
- 5. EFFECTS OF ZEBRA MUSSEL INFESTATION ON GENETIC DIVERSITY OF NATIVE MUSSEL SPECIES. **Jason E. Granberg**, Michael A. Romano, Richard V. Anderson.
- 6. RELATIONSHIPS BETWEEN FISH COMMUNITIES, HABITAT TYPES, AND ENVIRONMENTAL GRADIENTS IN THE UNIMPOUNDED MISSISSIPPI RIVER. V.A. Barko, M.W. Palmer, D.P. Herzog, and **R.A. Hrabik**.
- 7. A COMPARISON OF MACROINVERTEBRATES AS FACTORS IN DETERMINING BIOLOGICAL INTEGRITY: AN INDEX OF WATER QUALITY FOR MULTIPLE STREAMS. **Byron Karns**, Marcey Westrick, Leonard Ferrington.
- 8. VEGETATION RESPONSE TO A DEMONSTRATION DRAWDOWN ON POOL 8 OF THE UPPER MISSISSIPPI RIVER. **Kevin P. Kenow**, James E. Lyon, Randy K. Hines, and Larry R. Robinson.

- 9. TUNDRA SWAN RESEARCH NEEDS ON THE UPPER MISSISSIPPI RIVER. **Kevin P. Kenow**, James M. Nissen, Robert Drieslein, Erik M. Thorson.
- 10. COMMUNICATING SCIENTIFIC RESULTS USING MULTIMEDIA VIDEOS. **Andrew J. Kimball**, Shawn E. Weick, and Melinda G. Knutson.
- 11. CHANGES IN AQUATIC VEGETATION BETWEEN 1975, 1991, AND 2002 IN POOL 8, UPPER MISSISSIPPI RIVER. **Heidi A. Langrehr**.
- 12. FACTORS INFLUENCING SPATIAL VARIATION IN NITROGEN FIXATION. Carolyn M. Lipke, Lynn A. Bartsch, Eric A. Strauss, William B. Richardson and Jennifer C. Cavanaugh.
- 13. EFFECTS OF REED CANARY GRASS (Phalaris arundinacea) ON TERRESTRIAL ARTHROPOD ABUNDANCE, BIOMASS, AND DIVERSITY IN UPPER MIDWESTERN RIPARIAN WET MEADOWS. **Melissa S. Meier**, Eileen M. Kirsch, and Robin Tyser.
- 14. BOOTSTRAPPING TO CREATE NON-PARAMETRIC CONFIDENCE INTERVALS FOR SELECTION RATIOS OF FEEDING SITES OF GREAT BLUE HERONS ON THE UPPER MISSISSIPPI RIVER SYSTEM. **Sarah Timm**, Christine Custer, Douglas Olsen.
- 15. A REGIONAL WETNESS INDEX MODEL, WITH APPLICATION TO MAPPING AVIAN HABITAT ASSOCIATIONS. Tim J. Fox, **Wayne E. Thogmartin**, and Melinda G. Knutson.
- 16. WEB-BASED APPLICATIONS SUPPORT BIRD CONSERVATION PLANNING. **Shawn E. Weick**, Timothy J. Fox, J.C. Nelson, John C. Sauer, Wayne E. Thogmartin, Melinda G. Knutson.
- 17. HABITAT PREFERENCE AND GROWTH OF THE GLASS SHRIMP (PALAEMONETES KADIAKENSIS) IN THE UPPER MISSISSIPPI RIVER, DUBUQUE COUNTY, IOWA, AND VERNON COUNTY, WISCONSIN. **Amy Waterman**, Shelly Klein, Rebecca Rogis, and Daniel Call.
- 18. DECISION SUPPORT SYSTEM FOR AQUATIC RESOURCES IN THE MIDDLE MISSISSIPPI RIVER. **Steven J. Zigler**, Jason Rohweder, and Robert A. Hrabik.